

Ch-8. Decimals

Ex. 8.6

1. Subtract:

(a) ₹ 18.25 from ₹ 20.75

(b) 202.54 m from 250 m

(c) ₹ 5.36 from ₹ 8.40

(d) 2.051 km from 5.206 km

(e) 0.314 kg from 2.107 kg

Solutions:

(a) ₹ 20.75 - ₹ 18.25

$$\begin{array}{r} 20.75 \\ - 18.25 \\ \hline 2.50 \end{array}$$

₹ 2.50

(b) 250 m - 202.54 m

$$\begin{array}{r} 250.00 \\ - 202.54 \\ \hline 47.46 \end{array}$$

47.46 m

(c) ₹ 8.40 - ₹ 5.36

$$\begin{array}{r} 8.40 \\ - 5.36 \\ \hline 3.04 \end{array}$$

₹ 3.04

(d) 5.206 km - 2.051 km

$$\begin{array}{r} 5.206 \\ - 2.051 \\ \hline 3.155 \end{array}$$

3.155 km

(e) 2.107 kg - 0.314 kg

$$\begin{array}{r} 2.107 \\ - 0.314 \\ \hline 1.793 \end{array}$$

1.793 kg

2. Find the value of:

(a) $9.756 - 6.28$

(b) $21.05 - 15.27$

(c) $18.5 - 6.79$

(d) $11.6 - 9.847$

Solutions:

$$\begin{array}{r} \text{(a)} \quad 9.756 \\ - 6.280 \\ \hline 3.476 \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 21.05 \\ - 15.27 \\ \hline 5.78 \end{array}$$

$$\begin{array}{r} \text{(c)} \quad 18.50 \\ - 6.79 \\ \hline 11.71 \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 11.600 \\ - 9.847 \\ \hline 1.753 \end{array}$$

3. Raju bought a book for ₹ 35.65. He gave ₹ 50 to the shopkeeper. How much money did he get back from the shopkeeper?

Solutions:

Money given to shopkeeper = ₹ 50.00

Price of the book = ₹ 35.65

Money that Raju will get back from the shopkeeper will be the difference of these two

∴ Money left with Raju is

$$\begin{array}{r} 50.00 \\ - 35.65 \\ \hline 14.35 \end{array}$$

Hence, money left with Raju is ₹ 14.35

4. Rani had ₹ 18.50. She bought one ice cream for ₹ 11.75. How much money does she have now?

Solutions:

Money with Rani = ₹ 18.50

Price of an ice cream = ₹ 11.75

Now money left with Rani will be the difference of these two

Hence, money left with her is

$$\begin{array}{r} 18.50 \\ - 11.75 \\ \hline 6.75 \end{array}$$

∴ Money left with Rani is ₹ 6.75

5. Tina had 20 m 5 cm long cloth. She cuts 4 m 50 cm length of cloth from this for making a curtain. How much cloth is left with her?

Solutions:

$$\begin{aligned} \text{Length of cloth} &= 20 \text{ m } 5 \text{ cm} \\ &= 20.05 \text{ m} \end{aligned}$$

$$\begin{aligned} \text{Length of cloth to make a curtain} &= 4 \text{ m } 50 \text{ cm} \\ &= 4.50 \text{ m} \end{aligned}$$

Length of cloth left with Tina will be the difference of these two

Thus length of cloth left with her is

$$\begin{array}{r} 20.05 \\ - 4.50 \\ \hline 15.55 \end{array}$$

∴ The length of the remaining cloth left with Tina is 15.55 m

6. Namita travels 20 km 50 m every day. Out of this she travels 10 km 200 m by bus and the rest by auto. How much distance does she travel by auto?

Solutions:

$$\begin{aligned} \text{Total distance travelled by Namita} &= 20 \text{ km } 50 \text{ m} \\ &= 20.050 \text{ km} \end{aligned}$$

$$\begin{aligned} \text{Distance travelled by bus} &= 10 \text{ km } 200 \text{ m} \\ &= 10.200 \text{ km} \end{aligned}$$

Distance travelled by auto = Total distance travelled – Distance travelled by bus

∴ Distance to be travelled by auto is

$$\begin{array}{r} 20.050 \\ - 10.200 \\ \hline 9.850 \end{array}$$

∴ Namita travelled 9.850 km by auto

7. Aakash bought vegetables weighing 10 kg. Out of this, 3 kg 500 g is onions, 2 kg 75 g is tomatoes and the rest is potatoes. What is the weight of the potatoes?

Solutions:

Total weight of vegetables Aakash bought = 10.000 kg

$$\begin{aligned} \text{Weight of onions} &= 3 \text{ kg } 500 \text{ g} \\ &= 3.500 \text{ kg} \end{aligned}$$

$$\begin{aligned} \text{Weight of tomatoes} &= 2 \text{ kg } 75 \text{ g} \\ &= 2.075 \text{ kg} \end{aligned}$$

Weight of potatoes = Total weight of vegetables bought – (weight of onions + weight of tomatoes)

$$\begin{array}{r} = 10.000 - (3.500 + 2.075) \\ \quad 3.500 \\ + 2.075 \\ \hline 5.575 \\ \hline 10.000 \\ - 5.575 \\ \hline 4.425 \end{array}$$

∴ 4.425 kg is the weight of the potatoes